

**Erosion and Deposition** ▪ *Guided Reading and Study***Glaciers**

*This section describes huge ice masses, called glaciers. The section also describes the ice ages, a time when glaciers covered much of Earth. In addition, the section explains how glaciers form and move and how they cause erosion and deposition.*

**Use Target Reading Skills**

*Complete the first column in the chart by previewing the red headings and asking a what, how, or where question for each. As you read the section, complete the second column with the answers.*

Glaciers	
Question	Answer
What kinds of glaciers are there?	

**How Glaciers Form and Move**

- Any large mass of ice that moves slowly over land is a(n) \_\_\_\_\_.
- Circle the letter of each sentence that is true about continental glaciers.
  - They are larger than valley glaciers.
  - They spread out over wide areas.
  - They are found only in Antarctica.
  - They cover 2 percent of Earth's land.
- What are ice ages?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Is the following sentence true or false? The most recent ice age ended about 10,000 years ago. \_\_\_\_\_
- Is the following sentence true or false? All of North America was covered by a continental glacier in the last ice age. \_\_\_\_\_

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6. Circle the letter of each sentence that is true about valley glaciers.

- a. They are generally long, narrow glaciers.
- b. They are found on many high mountains.
- c. They are larger than continental glaciers.
- d. They usually move down valleys.

7. Where can glaciers form?

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8. When does gravity begin to pull a glacier downhill?

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9. Complete the table to show how the different types of glaciers move.

How Glaciers Move	
Type of Glacier	How It Moves
a.	Flows in all directions
b.	Flows in a surge

- c. Relate the movement of continental glaciers to why they cover Antarctica and most of Greenland.

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**How Glaciers Shape the Land**

10. List two processes by which glaciers erode the land.

- a. \_\_\_\_\_ b. \_\_\_\_\_

11. Is the following sentence true or false? Plucking can move only small stones. \_\_\_\_\_

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12. Describe abrasion and how it affects bedrock.

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13. When does a glacier deposit the sediment it is carrying?

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*Match each type of glacial landform with its description.*

Type of Landform	Description
___ 14. till	a. Small depression formed by a chunk of ice when it melts
___ 15. moraine	b. Mixture of sediments a glacier deposits on the surface
___ 16. terminal moraine	c. Ridge formed at the edge of a glacier
___ 17. drumlin	d. Long mound of till that is smoothed in the direction of the glacier's flow
___ 18. kettle	e. Ridge at the farthest point reached by a glacier
___ 19. cirque	f. Sharp ridge separating two cirques
___ 20. arête	g. Bowl-shaped hollow eroded by a glacier
___ 21. fiord	h. Sea-filled valley cut by a glacier in a coastal region

22. Explain the difference between glacial erosion and glacial deposition.

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